

UL85-12

Awaiting Image

Physical Specification

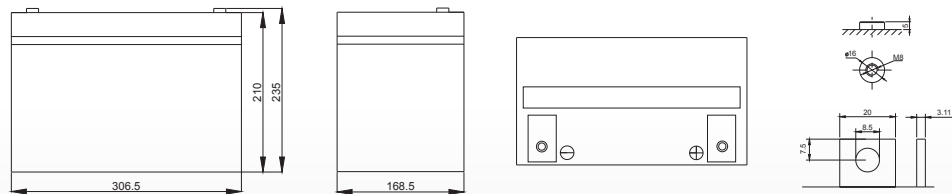
Part Number:	UL85-12
Length:	306.5 ± 2 mm (12.07 inches)
Width:	168.5 ± 2 mm (6.63 inches)
Container Height:	210 ± 2 mm (8.27 inches)
Total Height (with terminal):	235 ± 2 mm (9.25 inches)
Approx Weight:	Approx 26.0kg (57.3lbs)

Specifications

	Normal Voltage	12V
	Normal Capacity (20HR)	85AH
	Standard Terminal	F12
Terminal Type	Optional Terminal	F15
	Standard Option	ABS
Container Material	Flame Retardant Option (FR)	UL94:VO
	Rated Capacity	85.0 AH
		(10hr, 1.80V/cell, 25°C / 77°F)
Max Discharge Current	850A (5s)	
Internal Resistance	Approx 5.2mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 60°C (5 ~ 122°F) Charge: 0 ~ 50°C (5 ~ 104°F) Storage: -20 ~ 60°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 25.50A.Voltage 13.6V ~ 13.8V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 14.6V ~ 14.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	10 Years	
Self Discharge	Ultracell batteries may be stored for up to 6 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

F12 Terminal



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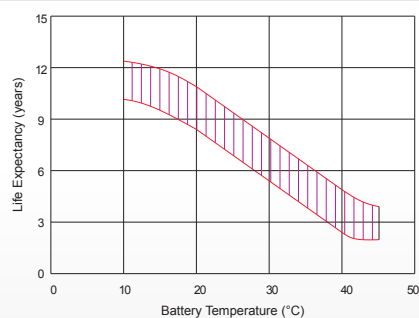
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	30 min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	297.6	219.1	163.5	85.40	53.06	32.76	22.26	17.95	14.90	9.81	8.85	4.68
10.0V	289.0	208.5	160.1	84.31	52.35	32.10	21.85	18.69	14.77	9.78	8.76	4.60
10.2V	280.4	201.1	157.6	83.02	51.85	31.76	21.65	17.52	14.67	9.69	8.67	4.51
10.5V	251.8	185.6	150.1	80.73	51.22	31.34	21.46	17.26	14.55	9.60	8.59	4.42
10.8V	227.3	169.2	138.3	78.06	50.50	31.08	21.21	16.67	14.48	9.56	8.51	4.38
11.1V	194.1	151.3	124.1	75.10	49.31	29.83	20.80	16.43	14.37	9.49	8.41	4.20

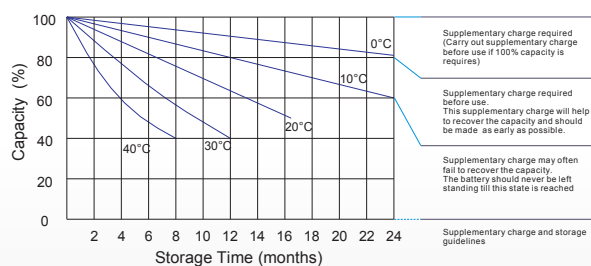
Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	30 min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	3140	2334	1782	978	614.8	383.9	262.1	214.8	178.5	117.5	106.1	56.41
10.0V	3078	2262	1753	967	609.2	379.2	258.2	211.8	176.9	117.1	105.2	55.43
10.2V	3043	2202	1734	959	605.6	376.5	257.0	209.8	175.8	116.2	104.3	54.40
10.5V	2770	2051	1654	939	601.7	371.7	255.0	207.0	174.4	115.2	103.3	53.37
10.8V	2523	1891	1528	917	594.0	369.0	252.1	200.0	173.6	114.7	102.3	52.86
11.1V	2216	1709	1376	892	585.1	355.1	247.9	197.2	173.0	113.9	101.1	50.97

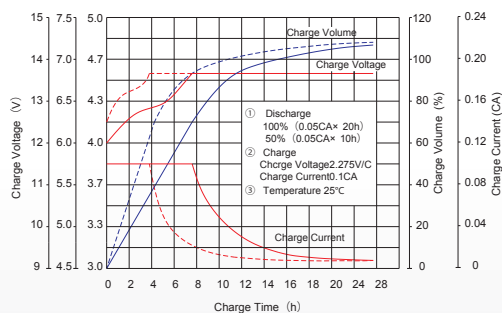
Effect of Temperature on Long Term Float Life



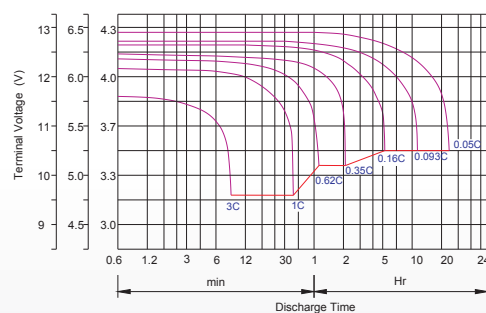
Storage Characteristic



Charge Characteristics Curve for Standby Use



Discharge Characteristic Curve



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